HiCrome Enterococci HiVeg Broth is recommended for the identification and differentiation of Enterococci from water samples.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiVeg special peptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>0.300</td>
</tr>
<tr>
<td>Chromogenic mixture</td>
<td>0.040</td>
</tr>
<tr>
<td>Polysorbate 80</td>
<td>2.000</td>
</tr>
<tr>
<td>Disodium hydrogen phosphate</td>
<td>1.250</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.5±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters**

**Directions**

Suspend 37.18 grams (double strength) or 18.59 grams (single strength) in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and dispense into tubes.

*Warning* : Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.

**Principle And Interpretation**

HiCrome Enterococci HiVeg Broth is prepared by completely replacing animal based peptones with vegetable peptones. HiCrome Enterococci HiVeg Broth is a slight modification of HiCrome Enterococci Broth which is formulated on the basis of the work carried out by Althous et al (1), Amoras (2), Litsky et al (3), and Manafi and Sommer (4) and Snyder and Lichstein (5). These media is recommended for the rapid detection of Enterococci from water samples. The presence of *Enterococcus* group, which is a subgroup of the faecal Streptococci, serves as a valuable bacterial indicator for determining the extent of faecal contamination (1, 6) and it is more specific than the detection of coliforms, which may originate from non-faecal sources. The enzyme beta-glucosidase produced by Enterococci cleaves the chromogenic substrate, resulting in a bluish green colour.

The medium contains HiVeg special peptone, which provides nitrogenous compounds and other essential nutrients. Sodium chloride maintains the osmotic balance of the medium. Sodium azide inhibits the accompanying microflora, especially gram-negative organisms. Polysorbate 80 acts as a source of fatty acids.

**Quality Control**

**Appearance**
Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**
Light yellow coloured clear solution

**Reaction**
Reaction of 1.86% w/v aqueous solution at 25°C. pH : 7.5±0.2

**pH**
7.30-7.70

**Cultural Response**
MV1376: Cultural characteristics observed after an incubation at 35 - 37°C for 24 - 48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
<th>Colour of Medium</th>
</tr>
</thead>
</table>

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Storage and Shelf Life
Store dehydrated powder and prepared medium at 2-8°C in tightly closed container. Use before expiry period on the label.

Reference